



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H141318

Mode: Highway

Status: Submitted

US-29, US-70, US-220 (S. OHenry Blvd)

From/Cross Street: I-40/85

Specific Improvement Type: 1 - Widen Existing Roadway

To: South of Florida St.

Project Category: Statewide Mobility

Length: 0.79

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$17,064,000

Description:

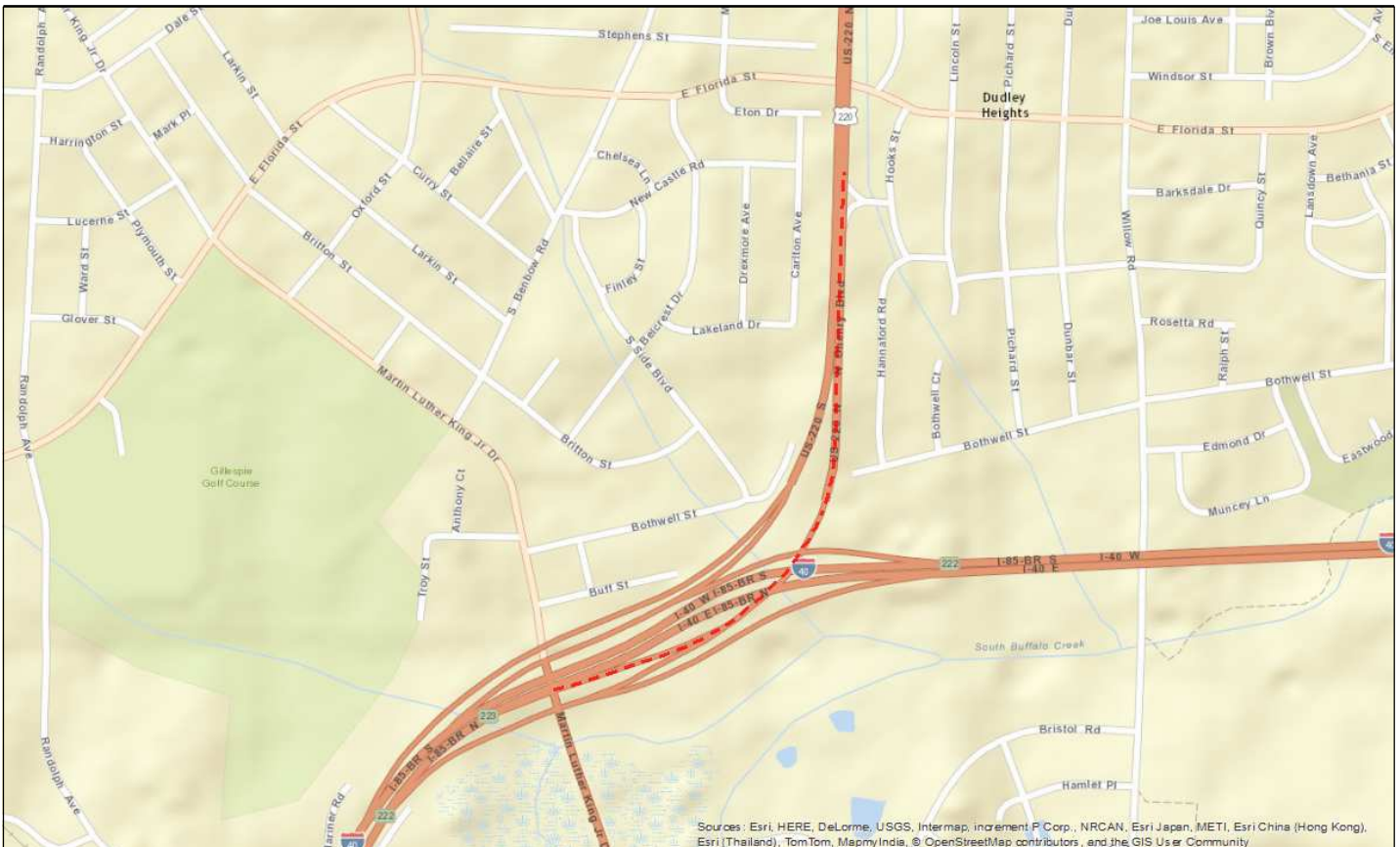
Widen one lane on exit ramp from I-40 East to US29 North from one lane to two lanes. This will require replacing one bridge. Extend southbound U29 to US421 exit ramp.

Division(s): Division 7

County(s): GUILFORD

MPOS(s)/RPO(s): Greensboro Urban Area MPO

Project Location



Statewide Mobility Total Score: 39.24

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 79.84	N/A	N/A
Safety (10%) 34.18		
Economic Competitiveness (10%) 24.16		
Multimodal + [Freight & Military] (20%) 21.15		
[Travel Time] Benefit/Cost (30%) 17.42		
Totals: Weight: 100% Weighted Score: 39.24		

Regional Impact Total Score: 67.73

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Accessibility / Connectivity (10%) 100.00	Percent: 15% Points: 100	Percent: 15% Points: 100
Congestion (V/C) (25%) 79.84		
Safety (10%) 34.18		
[Travel Time] Benefit/Cost (25%) 17.42		
Totals: Weight: 70% Weighted Score: 37.73		

Division Needs Total Score: 22.87

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 79.84	Percent: 25% Points: 0	Percent: 25% Points: 0
Safety (10%) 34.18		
[Travel Time] Benefit/Cost (20%) 17.42		
Totals: Weight: 50% Weighted Score: 22.87		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	55
Length (miles):	0.79
Facility Type:	Multi-Lane Highway
Access Control:	Full
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	10
Roadway has Curb & Gutter?	No
Volume (AADT):	64000.66
Capacity:	70800
Volume/Capacity Ratio:	0.9
% Autos:	93%
% Trucks:	7%
Truck Volume:	4230.09
Crash Density:	43.94
Crash Severity:	29.31
Critical Crash Rate:	29.31
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	2
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	21
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	70
Actual Congested Speed:	45.08
Travel Time Index:	1.22

Project Benefits

Project Cross-Section:	6B - 6 Lane Divided (27' Median with Jersey Barrier with Paved Shoulders)
Speed Limit:	55
Length (miles):	0.79
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	10
Travel Time Savings for 30 Years (Total):	1501908.57
Travel Time Savings for 30 Years (Autos):	1402640.78
Travel Time Savings for 30 Years (Trucks):	99267.79
Long-Term Employment:	223.47
% Change in Economy:	0.00025973
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 7

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT OnLine tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 7	100%	100	0
	0%	0	0
	0%	0	0
TOTAL Division Points		100	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Greensboro Urban Area MPO	100%	100	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	0

Project Cost and Source

Construction Cost:	\$16,450,000	Cost Estimation Tool
Right-of-Way Cost:	\$548,000	Cost Estimation Tool
Utilities Cost:	\$66,000	Cost Estimation Tool
Total Project Cost:	\$17,064,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$17,064,000	